IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended)   A method of signalling between communication equipments in a communication system adapted to transmit, using transmitter means, first data from a first communication equipment to a second communication equipment by modulating, using modulation means, a carrier signal according to a first set of constellation points having a first minimum distance between constellation points corresponding to first and second values of the first data, the method comprising:

transmitting, using the transmitter means, first and second data simultaneously by modulating, using the modulation means, the carrier signal according to a second set of constellation points arranged in a constellation plane, wherein the second set of constellation points is arranged such that:

a first subset of the second set of constellation points located in a first part of the constellation plane correspond to a first value of the first data;

a second subset of the second set of constellation points located in a second part of the constellation plane correspond to a second value of the first data;

wherein each of the first and second subsets comprises constellation points corresponding to at least first and second values of the second data; and

wherein the minimum distance between the constellation points of the first subset and the constellation points of the second subset is not less than the first minimum distance.

2. (Currently Amended)   A—The method as claimed in claim 1, wherein the minimum distance between the constellation points of the second set of constellation points and the perpendicular bisector of the straight line joining the closest two points corresponding respectively to first and second values of the first data in the first set of constellation points is not less than half the first minimum distance.

3. (Currently Amended)   A—The method as claimed in claim 1, wherein each of the first and second subsets comprises two constellation points.

4. (Currently Amended)   A—The method as claimed in claim 1, wherein the second set of constellation points includes the first set of constellation points.

5. (Currently Amended)   A—The method as claimed in claim 4, wherein the first set of constellation points comprises points (-x1a, -y1a) and (x2a, y2a), the first subset of the second set of constellation points comprises points (-x1a, -y1a) and (-x3, -y3), the second subset of the second set of constellation points comprises points (x2a, y2a) and (x4, y4) and, where x3>x1a, x4>x2a,

y3>y1a and y4>y2a, where x1a, x2a, x3, x4, y1a, y2a, y3, y4 are positive numbers.

6. (Currently Amended) A The method as claimed in claim 5, wherein substantially x1a=x2a=y1a=y2a and x3=x4=y3=y4=2x1.

7. (Currently Amended) A The method as claimed in claim 1, wherein the first set of constellation points comprises points (-x1b, -y1b) and (x2b, y2b), the first subset of the second set of constellation points comprises points (-x5, 0) and (0, -y5), the second subset of the second set of constellation points comprises points (0, y6) and (x6, 0) and x5•2x1b, x6•2x2b, y5•2y1b and y6•2y2b, where x1b, x2b, x5, x6, y1b, y2b, y5, y6 are positive numbers.

8. (Currently Amended) A The method as claimed in claim 7, wherein substantially x1b=x2b=y1b=y2b and x5=x6=y5=y6=2x1.

9. (Currently Amended) A The method as claimed in claim 1, wherein each of the first and second subsets comprise four constellation points.

10. (Currently Amended) A The method as claimed in claim 9, wherein in each subset of four constellation points, a first pair of constellation points correspond to respectively the first and second values of the second data, and a second pair of

constellation points correspond to respectively the first and second values of the second data, and further comprising switching between transmission of the first and second pair according to a predetermined criterion.

11. (Currently Amended) A The method as claimed in claim 9, wherein said method further comprising comprises the step of:
         transmitting, using the transmitter means, third data simultaneously to the first and second data, wherein, in each subset of four constellation points, first and second pairs of constellation points correspond, respectively, to first and second values of the third data.

12. (Currently Amended) A The method as claimed in claim 10, wherein in the first subset of four constellation points, the first pair of constellation points is (-x1, -y1) and (-x3, -y3), and the second pair of constellation points is (-x5, 0) and (0, -y5), and in the second subset of four constellation points, the first pair of constellation points is (x2, y2), and (x4, y4), and the second pair of constellation points is (0, y6) and (x6, 0), where x3>x1, x4>x2, x5•2x1, x6•2x2, y3>y1, y4>y2, y5•2y1 and y6•2y2, where x1, x2, x3, x4, x5, x6, y1, y2, y3, y4, y5, and y6 are positive numbers.

13. (Currently Amended) A The method as claimed in claim 12, wherein substantially x1=x2=y1=y2 and x3=x4=x5=x6= y3=y4=y5=y6=2x1.

14. (Currently Amended)   A The method as claimed in claim 1,
comprising wherein said method further comprises:

_____receiving, using first and second receiver means, the
modulated carrier signal at respective first and second receiving
equipments; and

_____at the first receiving equipment, demodulating, using
first demodulation means, only the first data, and at the second
receiving equipment, demodulating, using second demodulation means,
at least the second data.

15. (Previously Presented) A communication equipment for
transmitting first and second data simultaneously in a
communication system adapted to communicate the first data by
modulating a carrier signal according to a first set of
constellation points having a first minimum distance between
constellation points corresponding to first and second values of
the first data, the communications equipment comprising:

    modulation means adapted to modulate the carrier signal
according to a second set of constellation points arranged in a
constellation plane, wherein the second set of constellation points
is arranged such that:

    a first subset of the second set of constellation points
located in a first part of the constellation plane correspond to a
first value of the first data;

a second subset of the second set of constellation points located in a second part of the constellation plane correspond to a second value of the first data;

wherein each of the first and second subsets comprises constellation points corresponding to at least first and second values of the second data; and

wherein the minimum distance between the constellation points of the first subset and the constellation points of the second subset is not less than the first minimum distance; and

transmitter means for transmitting the modulated carrier signal.

16.   (Currently Amended)   A The communication equipment as clamed in claim 15, wherein the modulation means is adapted to modulate the carrier.

17.   (Currently Amended)   A communication system comprising: a
        the first communication equipment as claimed in claim 15,
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a second communication equipment having first receiving receiver means for receiving the modulated carrier signal and first demodulation means adapted to derive only the first data; and

a third communication equipment having second receiving receiver means for receiving the modulated carrier signal and first second demodulation means adapted to derive at least the second data.